



**COMBINED DECLARATION AND PRINCIPAL POWER OF ATTORNEY  
FOR PATENT APPLICATION**

As a below-named inventor, I (we) hereby declare that:

My (our) residence, post office address and citizenship, is (are) as stated below next to my (our) name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**FASTER PROCESSING OF MULTIPLE SPATIALLY-HETERODYNED DIRECT TO DIGITAL  
HOLOGRAMS**

the specification of which

\_\_\_\_\_ is attached hereto.

X

was filed on July 27, 2003 as Application No. 10/607,840  
and was amended on \_\_\_\_\_  
(If Applicable)

I hereby state that I (we) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I (we) acknowledge the duty to disclose all information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	YES	NO
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:						
I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:						
Application Number(s)	Filing Date (MM/DD/YYYY)		<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto			

I hereby claim the benefit under 35 U.S.C. 120 of any United States Application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<b>U.S. Parent Application or PCT Parent Number</b>	<b>Parent Filing Date (MM/DD/YYYY)</b>	<b>Parent Patent Number (If applicable)</b>
10/421,444	April 23, 2003	

*Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.*

I (we) hereby appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

George L. Craig	Registration No. 29,293
Vincent A. Branton	Registration No. 39,120
Joseph A. Marasco	Registration No. 32,798
James M. Spicer	Registration No. 26,096
Shelly L. Stafford	Registration No. 38,623
Kirk A. Wilson	Registration No. 45,939

All of:      UT-Battelle, LLC  
                  P. O. Box 2009  
                  Oak Ridge, Tennessee 37831-8243

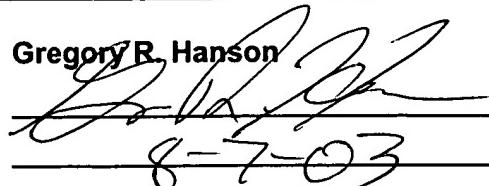
**Please direct all correspondence and telephone calls to the individuals identified in the Associate Power of Attorney.**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of First Inventor:

Gregory R. Hanson

Signature:

  
8-7-03

Date:

USA

Citizenship:

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Name of Second Inventor:

Philip R. Bingham

Signature:



Date:

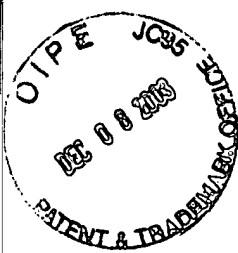
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	<b>Gregory R. Hanson et al.</b>	Group Art Unit:	<b>Unknown</b>
Serial No.:	<b>10/067,840</b>	Examiner:	<b>Unknown</b>
Filed:	<b>June 27, 2003</b>	Atty. Dkt. No.	<b>UBAT1490-2</b>
For:	<b>FASTER PROCESSING OF MULTIPLE SPATIALLY- HETERODYNED DIRECT TO DIGITAL HOLOGRAMS</b>		

**ASSOCIATE POWER OF ATTORNEY  
FOR PATENT APPLICATION  
Pursuant to 37 CFR 1.34**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

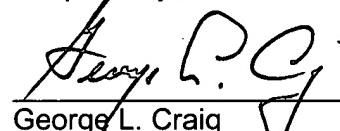
Pursuant to 37 CFR 1.34, I hereby appoint the registered practitioners assigned to Customer No. 25094 including: Ari G. Akmal, Reg. No. 51,388, John L. Adair, Reg. No. 48,828; Mark L. Berrier, Reg. No. 35,066; John J. Bruckner, Reg. No. 35,816; George R. Meyer, Reg. No. 35,284; Steven R. Sprinkle, Reg. No. 40,825, each an attorney or agent of Gray Cary Ware and Freidenrich, L.L.P. to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. (Assignee's agents are authorized to make corrections to this document).

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Date: 08-11-03

Respectfully submitted,

  
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